

IN THE CLAIMS:

Please amend the claims as follows.

1. (Amended) Control circuit for control of a media heating device (12, 22) of a dental handpiece (1) having, comprising

a heating current circuit (20) in which there is arranged a at least one hand-actuatable switch (S1, S2), which can be actuated by hand, ~~for the activation of~~ activating the heating device (12, 22), ~~characterized by; and,~~

a at least one further, controllable switch element (V1, V2) arranged in the heating current circuit (20), which switch element can be set in dependence upon an external control signal (VCC, V_{en}) into a conducting condition or a non-conducting condition.

2. (Currently Amended) Control circuit according to claim 1, ~~characterized in that~~ wherein

the heating current circuit (20) is connected to an a.c. voltage source (AC0, AC1) and there are provided two controllable switch elements (V1, V2) which are arranged anti-parallel in the heating current circuit (20).

3. (Currently Amended) Control circuit according to claim 1 ~~or 2,~~

~~characterized in that,~~ comprising one or two optotriacs to deliver the external control signal (VCC, V_{en}) ~~is delivered~~ to the controllable switch element ~~or elements~~ (V1, V2) ~~via one or two optotriacs (U1, U2).~~

4. (Currently Amended) Control circuit according to ~~any of claims~~ claim 1 to 3,

~~characterized in that,~~ wherein

the controllable switch element ~~or switch elements is or are~~ thyristors (V1, V2) a thyristor.

5. (Currently Amended) Control circuit according to ~~any preceding claim~~ claim 1,

~~characterized in that,~~ wherein

~~there~~ two hand-actuatable switches are arranged in the heating current circuit (20), in parallel to one another, ~~two switches (S1, S2) which can be actuated by hand,~~ the one said switch (S1) being provided for ~~activation of the~~ activating air media heating and ~~the other~~ another said switch (S2) being provided for ~~activation of the~~ activating water media heating ~~of the dental handpiece (1)~~.

6. (Currently Amended) Control circuit according to ~~any preceding claim~~ claim 1,

~~characterized in that,~~ comprising a valve for a corresponding air or water medium opened

upon an actuation of the each said switch ~~or switches (S1, S2), at the same time a valve for the corresponding medium is opened.~~

7. (Currently Amended) Control circuit according to ~~any preceding claim~~
claim 1,

~~characterized in that,~~

~~there is provided~~ further comprising an illumination device (LA) for the
dental handpiece (1), which is activated upon an activation of the heating device (12,
22) ~~is likewise activated~~.

8. (Currently Amended) Control circuit according to claim 7,

~~characterized in that,~~

~~after the deactivation of the heating device (12, 22)~~ wherein the illumination
device (LA) remains active for a predetermined persistence time after deactivation of
the heating device.

9. (Currently Amended) Control circuit according to claim 7 ~~or 8~~,

~~characterized in that,~~ wherein

the illumination device ~~has~~ comprises a control block (23), which, in
dependence upon an input signal, controls a light supply unit (24) for operating a light
source (LA).

10. (Currently Amended) Control circuit according to claim 9,

~~characterized in that,~~

~~as input signal there~~ wherein a voltage drop within the heating current circuit
is delivered to the control block (23) ~~a voltage drop within the heating current circuit~~
(20) as an input signal.

11. (Currently Amended) Control circuit according to claim 10,
~~characterized in that,~~ wherein
the voltage drop within the heating current circuit (20) is delivered to the
control block (23) via an opto-coupler (U3).
12. (Currently Amended) Control circuit according to ~~any of claims~~ claim
~~7 to 11,~~
~~characterized in that,~~ wherein
the heating current circuit (20) and the illumination device are connected to a
common current supply source (AC0, AC1).
13. (Currently Amended) Control circuit according to claim 12,
~~characterized in that,~~ wherein
the current supply source (AC0, AC1) issues an a.c. voltage, with a rectifier
(21) ~~being~~ connected upstream of the illumination device.
14. (Currently Amended) Dental handpiece having a heating device for
heating ~~the air and/or~~ at least one of an air supply and a water supply,
~~characterized by~~ comprising
a control circuit in accordance with ~~any preceeding claim~~ claim 1.
15. (Currently Amended) Dental handpiece according to claim 14,
~~characterized in that,~~
~~it is~~ comprising a dental spray handpiece (1).

16. (Currently Amended) Dental spray handpiece ~~(1) having~~ comprising a heating device ~~(12, 22)~~, which can be switched on and switched off, for ~~the through-flowing medium/media,~~

~~characterized in that, a medium flowing therethrough, wherein~~

the heating device ~~(12, 22)~~ can be deactivated when the ~~or at least one of the media~~ medium is intended for the purpose of at least one of cleaning ~~and/or~~ and disinfecting the spray handpiece (1).

17. (Currently Amended) Dental spray handpiece according to claim 16,

~~characterized in that, wherein~~

the heating device ~~(12, 22)~~ can be deactivated via an external signal (~~VCC,~~
~~V_{en}~~).